



National Weather Service

Storm Data and Unusual Weather Phenomena



January 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

SDZ001>002-012>014-025>026-031>032-043-047 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Pennington Plains - Haakon - Jackson - Todd**

10	0624MST	0	0	High Wind (G60)^M
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A cold front moving through the region created the high wind event for most of western South Dakota. Only minor damage occurred. Several trees in the Rapid City area had broken branches and a storm door window was shattered.

SDZ041 **Fall River Co.**

27	1800MST	0	0	Heavy Snow
28	0400MST			

A band of heavy snow fell with 6 inches reported in the extreme southwest corner of South Dakota.

WYOMING, Northeast

WYZ054>055 **Gillette - South Campbell**

27	0600MST	0	0	Heavy Snow
28	0800MST			

A band of heavy snow fell across the region with 6 to 10 inches of snow reported.



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February 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ001>002-012>014- Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Haakon

025-032

25	1000MST	0	0	Blizzard
26	0500MST			

SDZ024-028-030-041>044- Northern Black Hills - Central Black Hills - Custer Plains - Fall River Co. - Shannon - Jackson - Bennett - Mellette - Todd -
046>047-049 Tripp

25	1100MST	0	0	Winter Storm
26	0500MST			

A strong storm system hit the western portion of South Dakota. Strong winds from 30 to 50 mph with gusts to 75 mph created blizzard conditions generally north of Interstate 90. Snowfall totals north of Interstate 90 ranged from 3 to 10 inches with drifts of two to three feet. Visibilities were below a quarter mile for most of the event. South of Interstate 90, winds gusted up to 50 mph and snowfall totals ranged from 2 to 6 inches. Visibilities were less than a mile across this area. In the Black Hills, there was 29.9 inches of snow at Lead, 18.7 inches of snow at Deadwood and 6 or more inches through the rest of the Central and Northern Hills. The interstate was closed from Kadoka to the Wyoming border for nearly 12 hours. There were numerous minor accidents, as well as several vehicles and semi-trucks stuck on the interstate. A few serious accidents occurred mainly along the interstate. A semi-truck jack-knifed at Kadoka and another one slid off the interstate and tipped over at New Underwood. Near Sturgis, a truck hydroplaned and rolled over several times. The driver had several cuts and bruises. A multi-vehicle accident near Tilford started when a semi-truck collided with a Dept. of Transportation vehicle, which caused a chain reaction. Several cars swerved to miss the first accident and collided together. A child and two adults received minor injuries.

WYOMING, Northeast

WYZ054>056-058 Gillette - South Campbell - Moorcroft - Weston

25	1400MST	0	0	Blizzard
	2300MST			

WYZ057

Wyoming Black Hills

25	1400MST	0	0	Heavy Snow
	2300MST			

A strong storm system brought 4 to 18 inches of snow throughout northeastern Wyoming with drifts of two to three feet. Winds of 25 to 40 mph with gusts to 50 mph were common on the plains with visibilities less than a quarter mile. Interstate 90 was closed for several hours during the afternoon and evening. There were over 20 minor accidents with no major injuries reported.



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Storm Data and Unusual Weather Phenomena



March 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Bennett County

4 S Martin 07 1440MST 0 0 Hail (0.75)

Mellette County

White River 07 1600MST 0 0 Hail (0.75)

SDZ001>002-012>014-025>026-030>032 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains - Pennington Plains - Haakon

07 2100MST 0 0
08 1900MST Blizzard

SDZ027-041>044

Southern Foot Hills - Fall River Co. - Shannon - Jackson - Bennett

07 2300MST 0 0
08 1900MST Winter Storm

A winter storm system brought blizzard conditions to areas generally north of Interstate 90, with lesser amounts of snow and lower wind speeds south of the interstate. The northern Black Hills also had heavy snowfall. Winds north of the interstate ranged from 40 to 50 mph sustained with gusts to over 60 mph. The peak wind gust was 74 mph at Ellsworth Air Force Base at 330 pm on the 8th. Snowfall ranged from 4 to 13 inches with drifts of 2 to 4 feet. South of Interstate 90, wind speeds were from 25 to 40 mph with gusts around 50 mph. Snowfall amounts ranged from 2 to 6 inches. In the northern Black Hills, snowfall amounts were 13 to 21 inches. The highest amount was 21 inches at Lead.

WYOMING, Northeast

WYZ054>056-058

Gillette - South Campbell - Moorcroft - Weston

07 2100MST 0 0
08 1900MST Blizzard

WYZ057

Wyoming Black Hills

07 2100MST 0 0
08 1900MST Heavy Snow

A winter storm system brought snow and strong winds to the region. On the plains, 2 to 6 inches of snow were reported with northwest winds 25 to 30 mph gusting to 50 mph. In the Bear Lodge Mountains, 5 to 12 inches of snow fell.



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April 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

SDZ001>002-012>014-025>026-030>032-
Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains - Pennington Plains - Haakon

02 0700MST 1500MST 0 0 High Wind (G63)^M

High winds developed behind a cold front that moved through the region. Winds were sustained from 40 to 45 mph with gusts 60 to 70 mph. The peak gust was 72 mph at Ellsworth Air Force Base.

SDZ001>002-012>014-025>026-030>032-042>044-046>047-049
Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains - Pennington Plains - Haakon - Shannon - Jackson - Bennett - Mellette - Todd - Tripp

05 0600MST 1600MST 0 0 High Wind (G65)^M

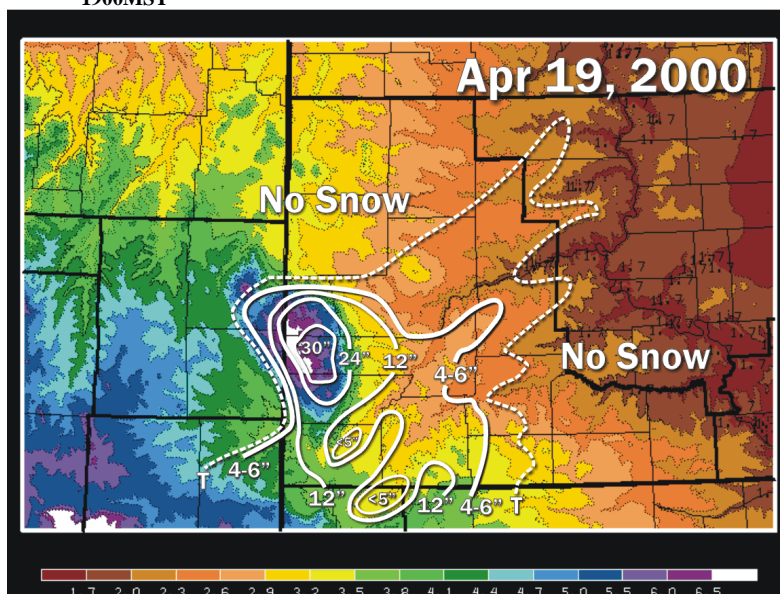
High winds developed behind a cold front. Sustained winds ranged from 40 to 56 mph. Gusts ranged from 55 to 70 mph with the peak wind speed 75 mph at the Belle Fourche Airport.

SDZ024>031-041>042
Northern Black Hills - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Fall River Co. - Shannon

18 2000MST 19 1600MST 0 0 1.5M Blizzard

SDZ013>014-032-043>044
Meade Co. Plains - Ziebach - Haakon - Jackson - Bennett

19 0400MST 1900MST 0 0 Winter Storm



A powerful spring storm hit western South Dakota and brought the region to a standstill for 24 to 48 hours. Snowfall amounts ranged from 4 to 12 inches on the plains, to 12 to 24 inches in the foothills and 24 to 36 inches in the Black Hills. Strong north to northeast winds of 30 to 45 mph with gusts to 70 mph occurred for nearly 18 hours creating drifts of 3 to 8 feet. The heavy, wet snow caused moderate to major damage to 6,000 acres of trees in the Black Hills National Forest with an additional 100,000 acres of minor damage. The worst damage was in the central and southern Black Hills. Power companies lost around 1900 poles with up to 2,000 miles of wire on the ground. Over 6,000 people lost power and some locations were without electricity for two weeks. While physical costs of damage from the storm were around 1.5 million dollars, recovery and cleanup cost another 1.5 million dollars. Lighter snow and winds were observed east of the Black Hills. 2 to 6 inches of snow fell with winds from 25 to 40 mph with gusts to 55 mph. The snow was preceded by heavy rainfall of 2 to 4 inches. Some areas also reported intermittent sleet throughout the day.



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April 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Tripp County

8 S Colome

26

1350MST

0

0

Hail (0.75)

WYOMING, Northeast

WYZ057

Wyoming Black Hills

18

2100MST

19

1400MST

0

0

Blizzard

A powerful spring storm over Western South Dakota also affected the southern end of the Bear Lodge Mountains. Snowfall ranged from 6 to 12 inches with wind speeds of 25 to 40 mph with gusts to 55 mph. Snow drifts 2 to 6 feet high were reported.



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Storm Data and Unusual Weather Phenomena



May 2000

May 200									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Meade County 10 SW Maurine	05	2030MST			0	0			Hail (0.75)
Meade County 6 SE Maurine	05	2045MST			0	0			Hail (1.75)
Meade County 7 E Piedmont	05	2055MST			0	0			Hail (0.75)
Perkins County 8 WNW Usta	05	2125MST			0	0			Hail (1.00)
Meade County 12 SW Hereford	05	2130MST			0	0			Hail (1.25)
Fall River County 3 E Edgemont	07	1430MST			0	0			Thunderstorm Wind (G52)
Fall River County Hot Spgs	07	1455MST			0	0			Hail (0.75)
Fall River County 5 SE Hot Spgs	07	1512MST			0	0			Hail (0.88)
Shannon County 15 SW Red Shirt	07	1530MST			0	0			Thunderstorm Wind (G50) ^M
Shannon County 3 W Kyle	07	1615MST			0	0			Hail (1.00)
Shannon County Wounded Knee	07	1615MST			0	0			Hail (1.00)
Bennett County Martin	07	1650MST			0	0			Hail (0.75)
Bennett County Harrington	07	1720MST			0	0			Thunderstorm Wind (G52)
Todd County St Francis	07	1735MST 1741MST			0	0			Thunderstorm Wind (G59) ^M
Tripp County 4 NNE Hamill to 2 S Hamill	07	1745MST			0	0			Hail (0.75)
Todd County 8 S Olsonville	07	1748MST			0	0			Thunderstorm Wind (G52)
Tripp County 8 S Winner	07	1835MST			0	0			Hail (0.75)
Ziebach County 13 W Cherry Creek	09	1833MST			0	0			Thunderstorm Wind (G50) ^M
Tripp County Winner	10 11	0045MST 0045MST			0	0			Hail (0.75)
Bennett County Tuthill	10	2225MST			0	0			Hail (0.75)
Todd County Parmelee to 6 S St Francis	10	2245MST			0	0			Hail (1.75)
Todd County St Francis	10	2245MST			0	0	1K		Thunderstorm Wind
Roof of a farm building damaged by strong winds									



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					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Todd County

3 S St Francis to 13 S St Francis 10 2315MST 0 0 45K Thunderstorm Wind

39 power poles blown over by strong winds. 1 Trailer home overturned 3 miles south of St. Francis.

Tripp County

Colome 11 0058MST
0105MST 0 0 Hail (0.75)

Lawrence County

Spearfish 26 1030MST 0 0 Hail (0.88)

Lawrence County

8 W Spearfish 26 1210MST 0 0 Hail (1.00)

Lawrence County

Lead to Deadwood 30 0025MST 0 0 Hail (0.75)

Butte County

Hoover 31 2035MST 0 0 Hail (1.00)

Mellette County

Wood 31 2305MST 0 0 Hail (0.75)

WYOMING, Northeast

Campbell County

15 SW Gillette to 22 S Gillette 16 1940MST
1955MST 0 0 Hail (1.75)

Campbell County

5 S Gillette 16 1955MST 0 0 Hail (1.50)

Campbell County

3 S Gillette 16 2020MST
2025MST 0 0 Hail (1.00)

Campbell County

6 S Recluse 31 1645MST 0 0 Hail (1.75)

Campbell County

Gillette 31 1825MST 0 0 Hail (1.25)



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June 2000

									June 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Harding County									
5 S Camp Crook	03	1618MST			0	0			Hail (0.88)
Butte County									
10 N Castle Rock	03	1708MST			0	0			Hail (0.75)
Perkins County									
5 S Lodgepole to 15 S Lodgepole	03	1710MST 1722MST			0	0			Hail (1.75)
Several houses had windows broken out.									
Perkins County									
5 S Lodgepole	03	1710MST			0	0			Thunderstorm Wind (G57)
Meade County									
6 N Hereford	03	1851MST			0	0			Hail (0.75)
Haakon County									
13 W Philip	09	1520MST			0	0			Hail (0.75)
Jackson County									
4 SW Cottonwood	09	1530MST			0	0			Hail (1.75)
4 windows broken in a house.									
Jackson County									
Cactus Flats	09	1535MST			0	0			Thunderstorm Wind (G60)
Haakon County									
10 N Philip	09	1550MST			0	0			Hail (0.75)
Haakon County									
Ottumwa to 2 NE Ottumwa	09	1630MST 1640MST			0	0			Hail (0.75)
Harding County									
3 SE Harding	09	1705MST			0	0			Hail (1.75)
Meade County									
3 SE Piedmont	09	1735MST 1750MST			0	0			Thunderstorm Wind (G70)
Numerous tree branches down.									
Harding County									
Buffalo	09	1744MST			0	0			Hail (0.75)
Harding County									
1 NE Redig	09	1745MST 1755MST			0	0			Hail (1.75)
Tripp County									
Colome	09	1804MST			0	0			Hail (2.00)
Harding County									
1 S Reva	09	1813MST			0	0			Hail (1.75)
Perkins County									
Prairie City	09	1825MST			0	0			Hail (1.75)
Butte County									
22 NE Newell	09	1843MST			0	0			Hail (0.75)
Butte County									
10 ESE Hoover	09	1915MST			0	0			Hail (0.75)
Meade County									
8 SE Mud Butte	09	1915MST			0	0			Hail (1.25)
Meade County									
10 SW Maurine	09	1940MST			0	0			Hail (0.75)



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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Meade County 9 N Fairpt	09	2000MST			0	0			Hail (1.50)
Todd County St Francis	11	1230MST			0	0			Hail (0.75)
Butte County Hoover	11	1320MST			0	0			Hail (1.25)
Meade County 14 S Faith	11	1600MST			0	0			Hail (0.75)
Shannon County Pine Ridge Arpt	11	1607MST			0	0			Thunderstorm Wind (G52) ^M
Pennington County Rapid City	12	1630MST 1640MST			0	0	30K		Thunderstorm Wind (G65) ^M
Numerous large tree branches down. A few vehicles damaged by the fallen limbs.									
Meade County 3 E Piedmont to Ellsworth Afb	12	1637MST 1650MST			0	0			Thunderstorm Wind (G53) ^M
Meade County 9 SE Hereford	12	1720MST			0	0			Thunderstorm Wind (G52)
Harding County 1 N Ladner	12	1835MST 1843MST			0	0			Hail (0.88)
Harding County 2 NE Ladner	12	1848MST			0	0			Hail (0.75)
Haakon County 2 W Philip	12	1925MST			0	0			Hail (0.75)
Haakon County 17 N Midland	12	1945MST 1950MST			0	0			Hail (0.75)
Jackson County 4 SW Cottonwood	12	1945MST			0	0			Hail (0.75)
Haakon County 13 N Philip	12	2101MST			0	0			Hail (0.75)
Meade County Black Hawk	17	1531MST			0	0			Hail (0.88)
Todd County 1 E Mission	19	1620MST			0	0			Hail (1.00)
Butte County Belle Fourche	22	1835MST			0	0			Hail (1.00)
Lawrence County St Onge	22	1835MST			0	0			Hail (1.75)
Meade County 1 W Bear Butte	22	1913MST			0	0			Thunderstorm Wind (G52)
Meade County Hereford	22	1926MST			0	0			Thunderstorm Wind (G61)
Meade County 3 ESE Elm Spgs to 9 S Union Center	22	1945MST 1949MST			0	0			Thunderstorm Wind (G61)
Meade County 12 S Plainview	22	2025MST			0	0			Thunderstorm Wind (G61)



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					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Pennington County 18 NE Creighton	22	2048MST			0	0			Thunderstorm Wind (G52)
Haakon County 8 N Milesville	22	2055MST			0	0			Thunderstorm Wind (G77) ^M
Ziebach County 13 W Cherry Creek	22	2055MST			0	0			Thunderstorm Wind (G77) ^M
Pennington County 3 N Johnson Siding	23	1512MST			0	0			Hail (1.75)
Pennington County Johnson Siding to 8 S Rockerville	23	1519MST 1552MST			0	0			Hail (1.75)
Hail from 3/4" to 1.75" fell in a large swath through the central Black Hills.									
Custer County 1 S Hermosa to 1 W Hermosa	23	1613MST 1615MST			0	0			Hail (1.75)
Butte County 4 NW Castle Rock	23	1720MST			0	0			Hail (1.75)
Butte County 1 N Castle Rock	23	1721MST			0	0			Hail (1.75)
Butte County 12 NE Newell to 4 SW Vale	23	1800MST 1822MST			0	0			Hail (1.75)
Butte County Nisland	23	1818MST			0	0			Hail (2.75)
Lawrence County St Onge	23	1835MST			0	0			Hail (1.75)
Meade County Sturgis to 3 SE Piedmont	23	1853MST 1859MST			0	0			Hail (0.75)
Meade County Tilford	23	1912MST			0	0			Hail (1.00)
Shannon County 5 N Manderson	23	1915MST			0	0			Hail (1.75)
Meade County Hereford	23	1926MST			0	0			Thunderstorm Wind (G61)
Meade County 1 W Bear Butte	23	1930MST			0	0			Thunderstorm Wind (G52)
Meade County 9 S Union Center	23	1930MST			0	0			Hail (1.75)
Pennington County Rochford	23	1939MST			0	0			Hail (0.75)
Meade County 3 ESE Elm Spgs	23	1945MST			0	0			Thunderstorm Wind (G61)
Meade County 9 S Union Center	23	1949MST			0	0			Thunderstorm Wind (G61)
Pennington County 3 E Hill City	23	2012MST			0	0			Hail (0.75)
Meade County 12 S Plainview	23	2025MST			0	0			Thunderstorm Wind (G52)



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SOUTH DAKOTA, West

Pennington County
18 NE Creighton 23 2048MST 0 0 Thunderstorm Wind (G52)

Jackson County
4 S Interior 23 2130MST 0 0 Thunderstorm Wind (G61)
A large tree was uprooted.

Pennington County
Rochford 24 0155MST 0 0 Hail (0.88)

Pennington County
3 S Silver City 24 0218MST 0 0 Hail (1.75)

Pennington County
4 SW Rapid City to
Rapid City 24 0235MST
0250MST 0 0 100K Hail (1.75)

This storm produced a swath of hail that damaged from 5,000 to 9,000 acres of trees in the Black Hills National Forest. The worst damage was the last 7 miles along Sheridan Lake Rd before prior to intersecting with Highway 385. The Hart Ranch area had numerous vehicles damaged from the large hail and many subdivision on the west side of Rapid City had minor roof and siding damage.

Butte County
2 E Belle Fourche 24 2325MST 0 0 Hail (1.00)

Butte County
Belle Fourche 25 0030MST 0 0 Hail (1.75)

Butte County
Belle Fourche 25 0030MST 0 0 Thunderstorm Wind (G65)

Perkins County
10 NE Bison 29 1515MST 0 0 Hail (0.75)

Perkins County
10 WNW Usta 29 1609MST 0 0 Hail (0.88)

Meade County
9 E Opal 29 1705MST
1720MST 0 0 Hail (1.75)
3 Windows broken

Meade County
3.5 E White Owl 29 1745MST
1800MST 0 0 Hail (1.00)

WYOMING, Northeast

Campbell County
14 NW Recluse 09 1455MST 0 0 Hail (1.75)
Broke some windows in a home and in a vehicle.

Campbell County
Recluse 22 1620MST
1630MST 0 0 Hail (1.00)

Crook County
New Haven 22 1730MST 0 0 Hail (1.00)

Crook County
4 NW New Haven 22 1735MST 0 0 Thunderstorm Wind (G52)

Crook County
2 W Hulett 22 1750MST 0 0 Hail (0.88)



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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WYOMING, Northeast</u>									
Crook County 4 E Aladdin	22	1820MST			0	0			Hail (1.00)
Crook County New Haven	23	1730MST			0	0			Hail (1.00)
Crook County 4 W New Haven	23	1735MST			0	0			Thunderstorm Wind (G52)
Crook County 2 W Hulett	23	1750MST			0	0			Hail (0.88)
Crook County 4 E Aladdin	23	1820MST			0	0			Hail (1.00)
Weston County 19 SW Upton	24	0230MST			0	0			Hail (1.75)
Weston County 4 NE Clareton	24	0330MST			0	0			Hail (0.88)
Campbell County Recluse	24	2237MST 2247MST			0	0			Hail (1.00)
Campbell County 13 N Rozet	24	2320MST 2335MST			0	0	20K		Thunderstorm Wind
A trailer home was flipped over and destroyed. A camper trailer was destroyed and a 100 gallon fuel tank that was partially full was blown over.									
Crook County 3 SE Devils Tower	25	0010MST			0	0			Thunderstorm Wind (G57)
Crook County 3 SE Devils Tower	25	0040MST			0	0			Thunderstorm Wind (G52)



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Storm Data and Unusual Weather Phenomena



July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Meade County									
4 SSW Plainview	01	1815MST			0	0			Hail (1.00)
Meade County									
2 N Howes	01	1850MST			0	0			Hail (0.75)
Tripp County									
9 S Colome	01	1900MST 1911MST			0	0			Hail (0.75)
Tripp County									
9 S Colome	01	1900MST			0	0	1K		Thunderstorm Wind
Several 300 pound hog feeders were blown over and damaged.									
Ziebach County									
15 S Dupree	01	1930MST			0	0			Hail (0.75)
Ziebach County									
15 S Dupree	01	1930MST			0	0			Thunderstorm Wind (G52)
Meade County									
3 E White Owl	03	1346MST			0	0			Hail (0.75)
Todd County									
2 SW Parmelee	03	1500MST			0	0			Hail (0.88)
Mellette County									
White River	03	1540MST 1548MST			0	0			Hail (0.75)
Todd County									
Mission	03	1601MST			0	0			Hail (0.75)
Todd County									
22 S Mission	03	1635MST			0	0			Hail (0.75)
Todd County									
22 S Mission	03	1653MST			0	0	3K		Hail (1.00)
Seven vehicles had windows shattered by the hail.									
Todd County									
1 SSW Mission	03	1630MST			0	0			Flash Flood
Numerous roads in the county had minor flooding. The largest area covered 150 yards of a gravel road with several inches of water, just to the south-southwest of Mission.									
Butte County									
11 NE Castle Rock	04	1853MST 1903MST			0	0			Hail (1.75)
Meade County									
3 W Fairpt to 5 N Howes	04	1940MST 2035MST			0	0	100K	75K	Hail (2.50)
Meade County									
3 W Fairpt to 5 N Howes	04	1940MST 2035MST			0	0			Thunderstorm Wind (G69)
Ziebach County									
10 SE Red Scaffold to 8 N Cherry Creek	04	2100MST 2110MST			0	0			Hail (1.75)
Haakon County									
6 N Kirley	04	2110MST			0	0			Thunderstorm Wind (G60)
Ziebach County									
Cherry Creek	04	2130MST			0	0	50K		Thunderstorm Wind

A single thunderstorm that originated along the Wyoming and Montana state line moved across west-central South Dakota. Hail the size of golfballs and baseballs were reported throughout central Meade County. Also in Meade County, high winds with gusts



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

estimated over 80 mph, caused extensive damage. Numerous sheds were blown down, homes had siding and roof damage, 2x4's were driven into walls, trees were blown over, large hay bales were rolled across fields, and six power poles were blown over. 40 lambs and ewes were killed by the large hail; with another 40 were crippled or blinded and had to be destroyed. In Ziebach County, a mobile home was damaged by high winds. Several outbuildings were also damaged.

Lawrence County Spearfish	05	1440MST 1445MST			0	0			Hail (1.00)
Lawrence County 9 W Spearfish	05	1456MST 1512MST			0	0			Hail (1.00)
Lawrence County 5 W St Onge	05	1605MST			0	0			Hail (0.75)
Harding County Reva	06	1817MST			0	0			Hail (1.00)
Lawrence County 2 NE Deadwood	10	1327MST			0	0			Hail (0.75)
Lawrence County Deadwood to 4 NE Deadwood	10	1407MST 1425MST			0	0			Hail (1.00)
Lawrence County 7 SE Deadwood	10	1450MST			0	0			Hail (0.75)
Meade County 8 S Sturgis	10	1450MST			0	0			Hail (0.75)
Meade County 4 NW Tilford	10	1500MST			0	0			Hail (1.75)
Lawrence County 3 NW Nemo	10	1520MST 1535MST			0	0			Hail (1.50)
Lawrence County 3 NW Nemo	10	1520MST 1535MST			0	0			Thunderstorm Wind (G69)
Meade County Piedmont	10	1537MST			0	0			Hail (0.75)
Meade County 3 SE Piedmont to Black Hawk	10	1605MST 1625MST			0	0			Hail (1.50)
Pennington County 2 NE Silver City	10	1611MST			0	0			Hail (0.75)
Fall River County 10 S Oelrichs	12	1430MST			0	0			Hail (0.75)
Pennington County 10 NE Quinn	13	1905MST			0	0			Hail (0.88)
Pennington County 10 NE Quinn	13	1905MST			0	0			Thunderstorm Wind (G52)
Custer County Wind Cave	14	1000MST			0	0			Wild/Forest Fire
Lightning caused a wildfire that burned 1,136 acres of Wind Cave National Park.									
Jackson County Countywide	14	1000MST			0	0			Wild/Forest Fire
Lightning caused seven small wildfires throughout the county. Fires were generally contained within several hours									



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

July 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Fall River County 5 E Edgemont	14	1200MST			0	0			Wild/Forest Fire
Lightning caused a wildfire that burned 150 acres to the east of Edgemont.									
Jackson County 2 E Cottonwood	14	1800MST			0	0			Thunderstorm Wind (G69)
Numerous trees had large branches broken.									
Perkins County 15 W Lodgepole	14	1915MST			0	0			Hail (1.00)
Harding County 6 NE Reva	14	2010MST			0	0			Hail (1.00)
Perkins County 15 W Lodgepole to 15 NW Prairie City	14	2030MST 2050MST			0	0	75K	200K	Thunderstorm Wind
Hail, up to baseball size, and high winds estimated to 80 mph were reported in the northwest corner of the county. A mobile home and some near by outbuildings were destroyed. Approximately 28,800 acres of crops were a 100 percent loss. Several fields of corn which were 3-4 feet high had stalks completely sheared off at the bases.									
Mellette County 3 S Norris	15	1430MST 1440MST	0.5	10	0	0			Tornado (F0)
Mission Fire Dept. reported a tornado on the ground for approximately ten minutes. The tornado touched down in open pasture and did not cause any damage.									
Bennett County Vetal	15	1435MST			0	0			Hail (0.88)
Bennett County Vetal	15	1435MST			0	0			Thunderstorm Wind (G52)
Harding County 5 N Ralph	19	1325MST			0	0		50K	Hail (1.50)
Over 2,000 acres of crops were damaged by the large hail.									
Harding County 1 N Ralph	19	1345MST			0	0			Hail (1.75)
Meade County 8 S Maurine	19	1600MST			0	0			Thunderstorm Wind (G52)
A garage door was blown off a building and several large trees had broken branches.									
Ziebach County 2 W Glad Vly	19	1608MST			0	0			Hail (0.88)
Meade County Red Owl	19	1630MST			0	0			Thunderstorm Wind (G52)
Meade County Howes	19	1645MST			0	0			Thunderstorm Wind (G57)
Pennington County 18 NE Creighton	19	1705MST			0	0			Thunderstorm Wind (G52)
Fall River County 8 NE Oral	19	1725MST			0	0			Hail (0.88)
Pennington County Wasta	19	1725MST 1735MST			0	0			Hail (0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

July 200									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, West									
Pennington County 5 W Wasta	19	1725MST 1735MST			0	0			Hail (0.88)
Pennington County Wasta	19	1725MST 1735MST			0	0			Thunderstorm Wind (G65)
Pennington County 9 NE Scenic	19	1754MST			0	0			Hail (0.88)
Haakon County 8 N Philip	19	1815MST			0	0			Hail (1.00)
Jackson County 15 SE Kadoka	19	1858MST			0	0			Hail (1.00)
Jackson County 7 E Longvalley	19	1945MST			0	0			Hail (1.00)
Jackson County 7 E Longvalley	19	1945MST			0	0			Thunderstorm Wind (G52)
Todd County 2 SW Parmelee	19	2000MST			0	0			Thunderstorm Wind (G52)
Pennington County Rochford	20	1522MST 1530MST			0	0			Hail (0.75)
Pennington County 2 NE Silver City	20	1550MST			0	0			Hail (0.75)
Mellette County 11 NE White River	21	1100MST			0	0			Hail (1.00)
Mellette County Wood to 1 NE Wood	21	1135MST 1140MST			0	0	5K		Hail (2.75)
A few homes had damage to gutters and siding. A patio door was shattered.									
Custer County 5 E Buffalo Gap	21	1155MST			0	0			Hail (1.75)
Bennett County Martin	21	1230MST			0	0			Hail (1.75)
Todd County Okreek	21	1230MST			0	0			Hail (3.25)
Bennett County Martin	21	1240MST 1255MST			0	0			Hail (1.00)
Todd County Hidden Timber	21	1305MST			0	0			Hail (1.75)
Mellette County White River	21	1420MST 1430MST			0	0			Hail (1.25)
Meade County 1 N Hereford	21	1605MST			0	0			Thunderstorm Wind (G52)
Fall River County Rumford	21	1610MST			0	0			Hail (1.25)
Fall River County 4 S Oelrichs	21	1638MST			0	0			Hail (0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Bennett County

12 W Martin	24	0100MST			0	0			Wild/Forest Fire
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Lightning caused three fires which burned 8,000 acres of land in southwestern Bennett County. The fires were contained within 24 hours.

Mellette County

8 SE Mosher	24	1548MST			0	0			Hail (2.75)
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Todd County

6 E Okreek	24	1548MST			0	0			Hail (2.75)
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Mellette County

7 S Mosher	24	1550MST 1605MST	1	100	0	0			Tornado (F0)
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Tripp County

Carter	24	1550MST			0	0			Hail (2.75)
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Tripp County

5 NNW Clearfield	24	1605MST	0.5	10	0	0			Tornado (F0)
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Tripp County

12 N Winner	24	1650MST			0	0			Hail (1.75)
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A NWS storm survey indicated that the first tornado in Mellette County touched down in a field. There was just minor damage to a corn field. Hail, up to baseball size, was reported with the storm over a three county area as it moved to the south. Some homes had damage to siding and trees had leaves and branches shredded off. Another tornado formed after the storm moved into Tripp County. It was smaller than the first and caused no damage. The storm later moved into Nebraska.

Lawrence County

Lead	27	2030MST			0	0	5K		Lightning
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Lightning struck a cable that supplies power to one of the mine shafts at the Homestake Mining Co. This caused problems with the shaft elevator, the compressor and milling operations. There were people at the bottom of the mine who were not able to exit through the shaft. Instead they took mining tractors through the mining tunnels to another shaft and exited there.

Pennington County

3 SW Keystone	27	2057MST			0	0			Hail (0.75)
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Harding County

Camp Crook	27	2145MST			0	0			Thunderstorm Wind (G56)
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3-4 inch branches broken off trees.

Jackson County

Interior	27	2214MST 2230MST			0	0			Hail (1.00)
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Meade County

12 SW Hereford	27	2225MST			0	0			Hail (1.00)
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Pennington County

18 NW Creighton	28	0000MST			0	0			Hail (0.75)
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WYOMING, Northeast

Campbell County

9 NW Gillette	02	1650MST			0	0			Hail (0.75)
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National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

July 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WYOMING, Northeast</u>									
Crook County Alva	02	1835MST 1840MST			0	0			Hail (0.75)
Crook County 5 SE Alva	02	1845MST			0	0			Thunderstorm Wind (G57)
Several eight inch trees limbs were broken off trees.									
Campbell County 18 N Recluse	04	1605MST 1620MST			0	0			Hail (1.75)
Campbell County 10 W Rockypoint	04	1645MST			0	0			Hail (2.50)
Crook County 18 NW New Haven	04	1650MST			0	0			Hail (1.00)
Crook County 18 NW New Haven	04	1700MST 1714MST			0	0	10K		Hail (2.75)
Several windows were broken. Also several cattle and antelope were killed.									
Crook County 9 NW Colony	04	1745MST			0	0			Hail (2.50)
Crook County 9 NW Colony	04	1745MST			0	0			Thunderstorm Wind (G52)
Campbell County 6 S Rozet	10	1545MST			0	0			Hail (1.00)
Weston County 10 W Upton	10	1710MST			0	0			Thunderstorm Wind (G52)
Campbell County 20 SE Wright	10	1850MST			0	0			Hail (0.75)
Weston County 12 S Upton to Osage	10	1850MST 1855MST			0	0			Hail (0.75)
Crook County 6 W New Haven	10	1930MST			0	0	1K		Thunderstorm Wind
Several hay feeders were blown over, and large tree branches were broken off trees									
Weston County 10 NE Upton	10	2015MST			0	0			Thunderstorm Wind (G52)
Crook County Countywide	14	1000MST			0	0			Wild/Forest Fire
Lightning caused 7 wildfires throughout the county. The largest was 400 acres.									
Campbell County 10 N Gillette	16	0038MST 0045MST			0	0			Hail (0.75)
Crook County 13 S Sundance	16	0625MST			0	0			Hail (0.75)
Weston County 4 NW Four Corners	20	1515MST			0	0			Hail (1.00)
Weston County 7 NW Four Corners	20	1610MST			0	0			Hail (1.00)
Crook County 12 SE Sundance	20	1638MST			0	0			Hail (0.88)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WYOMING, Northeast

Campbell County

5 NE Rozet

21

1524MST

0

0

Hail (0.75)

Crook County

Moorcroft

21

1537MST

0

0

Hail (0.75)

Campbell County

Countywide

27

2000MST

0

0

Wild/Forest Fire

Lightning caused several small fires throughout the county. The largest was contained within 36 hours.

Crook County

Countywide

27

2100MST

0

0

Wild/Forest Fire

Lightning caused five fires throughout the county. Four of the fires were small and easily contained. The fifth fire, northwest of Hulett, reached several hundred acres before crews had it under control.

Weston County

Countywide

27

2100MST

0

0

Wild/Forest Fire

Lightning caused four small fires. Crews contained the fires within several hours of ignition.



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Pennington County									
2 WNW Rochford	01	1340MST 1345MST			0	0			Hail (1.00)
Custer County									
4 N Custer	01	1418MST			0	0			Hail (0.75)
Butte County									
3 W Belle Fourche to 3 S Belle Fourche	01	2125MST 2135MST			0	0			Thunderstorm Wind (G75)
Lawrence County									
8 W Spearfish	01	2125MST			0	0			Thunderstorm Wind (G59) ^M
Lawrence County									
5 W Spearfish	01	2125MST 2130MST			0	0			Thunderstorm Wind (G68) ^M
Butte County									
Belle Fourche	01	2131MST			0	0			Hail (0.75)
Lawrence County									
Spearfish	01	2131MST 2200MST			0	0			Hail (1.75)
Lawrence County									
Spearfish	01	2131MST 2200MST			0	6	9.5M		Thunderstorm Wind (G95)
Meade County									
3 W Sturgis to Sturgis	01	2200MST 2220MST			0	2	500K		Thunderstorm Wind (G78)
Meade County									
3 SE Piedmont to Black Hawk	01	2210MST 2245MST			0	0			Thunderstorm Wind (G61)
Pennington County									
Rapid City	01	2223MST 2250MST			0	0			Thunderstorm Wind (G61) ^M
Meade County									
Ellsworth Afb	01	2234MST 2255MST			0	0			Thunderstorm Wind (G56) ^M
Pennington County									
Rapid City Arpt	01	2234MST			0	0			Thunderstorm Wind (G50) ^M
Jackson County									
Cedar Pass	01	2250MST			0	0			Thunderstorm Wind (G52)
Shannon County									
Kyle	01	2255MST 2310MST			0	0			Thunderstorm Wind (G58)
Bennett County									
Martin	02	0015MST			0	0			Thunderstorm Wind (G52) ^M

An intense thunderstorm moved from northeastern Wyoming into the foothills of the northern Black Hills. Massive downburst winds estimated at 90 to 110 mph hit areas from eight miles west of Spearfish to several miles east of Spearfish. Hail to golfball size accompanied the high winds and damaged roofs and siding throughout the region, although the winds caused the worst damage. In town, the intense winds shattered signs, blew over gas station awnings and the wind driven hail caused major damage to automotive and mobile home dealerships. A retirement home had a quarter of its roof torn off and a hotel had to evacuate all its guests as a portion of their roof was blown off. At least ten mobile homes were unlivable, and over 100 mobile homes had damage to siding, roofing and skirting. The airport at Spearfish had 27 planes damaged, and seven of those were destroyed beyond repair. Seven hangers at the airport were also damaged or destroyed. A massive amount of trees in Spearfish were either snapped in half or completely knocked over, leaving many roads unpassable after the event. Roofing material sliced through an oxygen valve at the Spearfish Trout Farm and killed 100,000 out of 120,000 trout that the family raised. In the Spearfish city campground, more than 150 campers were there, in anticipation of the 60th Annual Sturgis Motorcycle Rally the following week. Over 100 trees were blown over and many people had camping equipment, vehicles or motorcycles damaged by the falling trees. None of the trees fell on occupied tents, although several fell within inches of where people were sleeping in their tents. 4 injuries were reported. One of the injuries required treatment at Rapid City Medical Center after someone was injured when his camper flipped over on the interstate.



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

East of Spearfish, highway signs were blown over, large round bales of hay were blown several yards, and more trees were blown down or snapped off. Numerous outbuildings were also damaged, with debris scattered nearly a hundred yards downstream. In Sturgis, the damage was not as intense. The majority of the damage occurred to tents that were set up by vendors selling merchandise for the motorcycle rally. The most critical injury from the entire event occurred in Sturgis when a vendor was trying to keep his tent from being blown away, and he was thrown into metal scaffolding. He was treated at the Rapid City Regional Hospital. As the storm moved to the southeast, high winds over 60 mph were reported for nearly 45 minutes between Sturgis and Rapid City. In Rapid City, the National Weather Service office measured wind gusts of 70 mph. The only damage reported were tree limbs down. The storm weakened as it moved southeast of Rapid City, but was still at severe limits as it passed over the Badlands National Park and went southward into Bennett County. Observers in Martin reported 60 mph wind gusts. The storm dissipated before reaching Nebraska.

Meade County									
Tilford	02	1406MST			0	0			Hail (1.00)
Harding County									
Camp Crook	02	1538MST			0	0			Hail (1.00)
Harding County									
3 SE Harding	02	1551MST			0	0			Hail (0.75)
Custer County									
Wind Cave	04	2040MST 2105MST			0	0			Thunderstorm Wind (G66) ^M

A strong downburst hit Wind Cave National Park. A large area of trees were blown down or snapped in half and numerous trees also had broken branches. Large hail stripped leaves, pine needles and bark off of trees. No estimate on hail size is available, as the park was closed at the time.

Mellette County									
White River	07	1431MST 1436MST			0	0			Hail (0.88)
Meade County									
10 SE Hereford	11	1717MST			0	0			Thunderstorm Wind (G52)
Ziebach County									
13 W Cherry Creek	11	1952MST			0	0			Thunderstorm Wind (G54) ^M
Lawrence County									
3 SE Spearfish to 3 SW Spearfish	11 14	2000MST 1400MST			0	0			Wild/Forest Fire

A ten acre fire started by lightning threatened Spearfish Canyon. Nine other small fires, each less than two acres in size, were also ignited throughout Lawrence County, but were extinguished within 24-48 hours.

Fall River County									
6 S Hot Spgs	11 20	2200MST 1200MST			0	0			Wild/Forest Fire

Approximately 7,800 acres were burned after lightning caused a fire. Strong, shifting winds caused the blaze to get out of control for several days. One home was destroyed as well as two outbuildings. Over 600 firefighters fought the fire.

Harding County									
Countywide	13	0400MST			0	0			Wild/Forest Fire

Lightning caused five fires throughout Harding County, the largest reaching 1,000 acres near the Antelope Range Station. The other fire ranged from six to 45 acres.

Harding County									
Countywide	20	0600MST			0	0			Wild/Forest Fire

Lightning caused four fires across Harding County. The largest was 500 acres along the South Grand River; the smallest around ten acres near Reva. No homes or structures were destroyed or damaged.



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Haakon County

Countywide 20 0900MST 0 0 **Wild/Forest Fire**
 Lightning caused four small fires. One farmer lost 80 bales of hay and five acres of cropland around his home.

Bennett County

Countywide 20 1100MST 0 0 **Wild/Forest Fire**
 Lightning caused up to eight fires throughout the county. The largest was 70 acres just southwest of Martin. One farmer lost 350 bales of hay. Otherwise, the fires were quickly contained.

Mellette County

White River 20 1527MST
1544MST 0 0 **Hail (0.88)**

Mellette County

White River 20 1527MST 0 0 **Thunderstorm Wind (G58)**

Mellette County 3 E White River

20 1545MST
1605MST 0 0 200K **Thunderstorm Wind**
 High winds of unknown strength destroyed a new hog barn, moved two more off their foundations and tore siding off another barn. The building that was destroyed was vacant, and no hogs were injured or killed.

Mellette County

7 SE White River 20 1600MST 0 0 **Hail (0.88)**

Ziebach County

15 NE Dupree 22 0410MST
0425MST 0 0 **Hail (1.00)**

Custer County

6 E Custer 22 1230MST 0 0 **Hail (0.75)**

Pennington County

5 S Rapid City 23 1320MST 0 0 **Hail (1.00)**

Pennington County

5 S Rapid City 23 1347MST 0 0 **Hail (0.75)**

Pennington County

10 S Rapid City 23 1350MST
1355MST 0 0 **Hail (2.75)**

Custer County

Hermosa 23 1427MST 0 0 **Hail (1.75)**

Custer County

Fairburn 23 1510MST
1530MST 0 0 **Hail (1.00)**

Custer County

9 E Fairburn 23 1600MST 0 0 **Hail (0.75)**

Harding County

**11 NE Redig to
11 N Redig** 23 1730MST 0 0 **Hail (0.88)**

Custer County

18 W Custer 24
30 1330MST
2359MST 0 0 **Wild/Forest Fire**

Pennington County

9 SW Hill City 26
30 1700MST
2359MST 0 0 **Wild/Forest Fire**

A forest fire started by arson became the largest fire in recorded history of the Black Hills as high winds pushed the fire northward



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

from Custer County into Pennington County. By the time the fire was contained in early September, 83,500 acres had been burned. The burn area had a very dry summer, and when the fire started, daytime relative humidities were dropping to near 10 percent each day. Very strong winds on August 26 caused the fire to grow from 4,700 acres to nearly 50,000 acres in a 24 hour period. A total of 1200 firefighters were part of the suppression and containment effort, and prevented homes from being destroyed. Three outbuildings were destroyed and two homes had minor damage.

WYOMING, Northeast

Crook County								
Hulett	01	2121MST			0	0		Thunderstorm Wind (G57)
Crook County								
Aladdin	01	2125MST 2140MST			0	0	10K	Thunderstorm Wind
Crook County								
Beulah	01	2128MST 2145MST			0	0	15K	Thunderstorm Wind

A massive downburst started over northeastern Wyoming and intensified as it moved into South Dakota. Aladdin reported numerous uprooted trees, damage to roofs and siding, and a satellite dish blown over. One building had a large portion of its roof blown down, and a sign for a business was blown over. Beulah had many homes and small businesses with roof damage. A number of trees had branches broken and a few were uprooted.

Weston County								
10 NE Upton	02	1530MST			0	0		Hail (0.75)
Weston County								
Osage	02	1545MST			0	0		Thunderstorm Wind (G52)
Weston County								
Newcastle	02	1610MST			0	0		Hail (0.75)
Weston County								
Newcastle	02	1610MST			0	0		Thunderstorm Wind (G65)
Campbell County								
15 E Wright	04	1840MST			0	0		Hail (1.00)
Weston County								
3 E Rochelle	04	1920MST			0	0		Hail (0.88)
Crook County								
Countywide	10 13	2200MST 1400MST			0	0		Wild/Forest Fire

Eighteen fires were started by lightning. The largest fire burned 4,000 acres in the New Haven area and took several days to contain. The rest were contained within 24 hours.



National Weather Service

Storm Data and Unusual Weather Phenomena



September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm
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SOUTH DAKOTA, West

Shannon County

9 S Manderson to 3 S Manderson	01 09	1200MST 1000MST			0	0		Wild/Forest Fire
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Lightning caused a 7,000 acre fire that threatened portions of the Pine Ridge Indian Reservation. The fire was driven by strong winds and low humidities. Firefighters were able to contain the blaze before any homes were lost.

Shannon County

Manderson	02 04	0800MST 2200MST			0	0		Wild/Forest Fire
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Lightning caused a 700 acre fire near Manderson. Another fire, also caused by lightning, burned 100 acres near Oglala.

Meade County

Countywide	05 06	1700MST 1400MST			0	0		Wild/Forest Fire
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Lightning caused seven fires in central Meade County. The largest fire was around 500 acres south of Hereford

Meade County

6 NE Volunteer	05	1700MST			0	0		Thunderstorm Wind (G63)
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Meade County

Union Center	05	1735MST			0	0	115K	Thunderstorm Wind
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Strong downburst winds flattened a post frame building for a ranch supply business. Two barns and a garage near the business also had their roofs blown off. The winds left a path of damage about 200 yards wide.

Pennington County

6 W Rockerville	05 07	2100MST 2100MST			0	0		Wild/Forest Fire
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A lightning strike caused a 30 acre blaze near Sheridan Lake. No homes or structures were threatened

Fall River County

Countywide	09 10	1400MST 1800MST			0	0		Wild/Forest Fire
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A small fire started by sparks from a train was fueled by 50 mph winds. The fire burned through the small town of Ardmore. A vacant house and four outbuildings were destroyed, but no injuries were reported

Mellette County

White River	09	2225MST			0	0		Thunderstorm Wind (G63)
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Tripp County

Winner	09	2257MST			0	0	2K	Thunderstorm Wind (G52)
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An awning was torn off a building in Winner.

Butte County

Countywide	10 12	0300MST 1100MST			0	0		Wild/Forest Fire
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Harding County

Countywide	10 12	0300MST 1100MST			0	0		Wild/Forest Fire
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Meade County

Countywide	10 12	0300MST 1100MST			0	0		Wild/Forest Fire
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Perkins County

Countywide	10 12	0300MST 1100MST			0	0		Wild/Forest Fire
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National Weather Service

Storm Data and Unusual Weather Phenomena



September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Lightning caused at least 23 fires across a four county region. The largest fire was two to three miles long and up to five miles wide along the Grand River in Perkins County. No structures were lost, although corrals and a few sheds were destroyed, as well as 70 tons of hay. Strong northwest winds up to 40 mph fanned the fires, and reignited some others after they had been contained.

Harding County

Countywide	17 18	0110MST 2000MST			0	0			Wild/Forest Fire
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Perkins County

Countywide	17	0200MST 2200MST			0	0			Wild/Forest Fire
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Thunderstorms that moved through northwestern South Dakota caused several lightning fires. Twenty-one fires were reported in Harding County. The three largest fires burned a total of 17,000 acres, with another 1,000 acres burned by the smaller fires. Several old buildings and corrals were destroyed, but no occupied homes were lost. In Perkins County, two fires were reported. The largest was 4,500 acres northeast of Meadow.

Shannon County

Countywide	17 19	2130MST 1900MST			0	0			Wild/Forest Fire
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Bennett County

Countywide	17	2200MST			0	0			Wild/Forest Fire
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Jackson County

Countywide	17 19	2200MST 1400MST			0	0			Wild/Forest Fire
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Todd County

Countywide	17 19	2230MST 0700MST			0	0			Wild/Forest Fire
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Todd County

3 NW Rosebud	17	2230MST			0	0	35K		Thunderstorm Wind (G52)
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Todd County

Mission to 7 E Mission	17	2247MST 2315MST			0	0	100K		Thunderstorm Wind (G61) ^M
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Todd County

2 E Okreek	17	2330MST 2350MST			0	0			Thunderstorm Wind (G83) ^M
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Tripp County

Countywide	17 18	2330MST 2200MST			0	0			Wild/Forest Fire
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Dry lightning and strong downburst winds hit portions of southwestern South Dakota. Two trailer homes were flipped over and destroyed near Rosebud. No one was home at the time. Several homes in Mission, where a sensor recorded a 68 mph gust, had roof damage, and a minister had a shed roof smash into his van. The local electric cooperative reported four power poles broken, as well as problems with other electric equipment caused by the power lines touching each other. The worst damage was to a business seven miles east of Mission. The roof was torn off the building, and a utility pole and radio tower were toppled. Two home weather stations, located two miles east of Okreek, reported peak winds of 89 and 93 mph. The dry lightning also caused more than 30 fires throughout the region. The largest was estimated at 15,000 acres just south of Kyle. On the Rosebud Reservation, four fires blazed, with one fire reaching 1,100 acres. One home was destroyed in the fire, and another had damage on one side. Southwestern Jackson County had a 2,500 acre fire, and Tripp County had two fires just south of Winner, each around 1,000 acres. Ranchers reported at least 1,500 round bales of hay destroyed. Also, seven cattle were killed and another 20 cattle were badly burned. In Bennett County, a large fire of several thousand acres occurred along Highway 18 northeast of Batesland.



National Weather Service

Storm Data and Unusual Weather Phenomena



September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ024-028

Northern Black Hills - Central Black Hills

22 0100MST
23 0500MST

0 0

Winter Storm

An early season winter storm brought heavy snow to the region. Three to six inches of snow fell across the central Black Hills, with five to ten inches of snow in the northern Black Hills. Lead reported the most snowfall from the storm with 10.5 inches. Some of the snowfall totals at the cooperative observing sites set snowfall records for the month of September.

WYOMING, Northeast

WYZ055-057

South Campbell - Wyoming Black Hills

22 0100MST
23 1200MST

0 0

Winter Storm

An early season snowstorm brought heavy snow to northeastern Wyoming. Three to eight inches of snow fell across southern Campbell County, with three to six inches of snowfall in the Bear Lodge Mountains. Some of the snowfall totals at the cooperative observing sites set snowfall records for the month of September.



National Weather Service

Storm Data and Unusual Weather Phenomena



October 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Butte County

3 N Belle Fourche	13	1800MST			0	0			Hail (1.00)
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Butte County

4 N Belle Fourche	13	1822MST 1835MST			0	0			Hail (1.00)
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Hail was reported to be several inches deep.

Pennington County

Hill City	14	0158MST			0	0			Hail (0.88)
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Bennett County

6 SE Martin	14	1855MST 1925MST			0	0			Hail (0.75)
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Ziebach County

Countywide	19 20	0600MST 2300MST			0	0			Wild/Forest Fire
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A fire in southern Ziebach county grew to 12,000 acres as strong winds hindered fire fighters. The fire threatened the community of Cherry Creek, but fire fighters were able to hold back the blaze.



National Weather Service

Storm Data and Unusual Weather Phenomena



November 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ001-012-024>025-028 Harding - Butte - Northern Black Hills - Northern Foot Hills - Central Black Hills

01	0450MST	0	0	89K	Heavy Snow
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An intense winter storm brought heavy, wet snowfall and very strong winds to portions of western South Dakota. In Butte and Harding counties, the snowfall was greatest on the western half of the county. Totals ranged from 4 to 6 inches. Six to 10 inches of snow was fell along Interstate 90 from Whitewood to the Wyoming state line. In the central and northern Black Hills, 12 to 24 inches of snow was reported. The higher peaks in the northern Black Hills reported 24 to 36 inches of snow, and Elk Mountain had 54 inches of snowfall. 30 power poles were broken by a combination of the weight of the snow and wind gust to 55 mph

SDZ002-013>014-025>026-030>032 Perkins - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains - Pennington Plains - Haakon

01	0730MST	0	0	High Wind (G63)^M
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An intense winter storm system that brought heavy snow to the Black Hills also brought very strong winds to the western South Dakota plains. Northwest winds of 35 to 40 mph were common throughout the day into the evening. Many locations had gusts to 60 mph, while the peak gust was 70 mph at Ellsworth Air Force Base.

SDZ001>002-012>014-024>025-031>032-042>043 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Pennington Plains - Haakon - Shannon - Jackson

07	0400MST	0	0	Winter Storm
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A winter storm brought snow and gusty northwest winds to the region, allowing visibilities to drop to less than a quarter mile at times. Snowfall totals ranged from 2 to 4 inches on the plains and in the northern foothills with 4 to 8 inches of snow in the northern Black Hills.

SDZ013>014-042>044-046>047-049 Meade Co. Plains - Ziebach - Shannon - Jackson - Bennett - Mellette - Todd - Tripp

11	1930MST	0	0	Heavy Snow
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Heavy snowfall covered portions of west central through south central South Dakota. Most counties reported from 6 to 8 inches of snow. The highest amounts were across Todd County with 6 to 12 inches and Tripp County with 8 to 16 inches of snow.

SDZ001>002-012>013-031 Harding - Perkins - Butte - Meade Co. Plains - Pennington Plains

18	0155MST	0	0	High Wind (G63)
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High winds were ushered into the region by a cold front. Sustained wind speeds were from 35 to 45 mph with gusts to near 60 mph. The highest measured gust was 59 mph at Ellsworth AFB, while gusts were estimated to 70 mph across eastern Butte County.

SDZ001>002-012>014-025-032-043>044-047-049 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Haakon - Jackson - Bennett - Todd - Tripp

18	1730MST	0	0	Winter Storm
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A cold front brought very strong winds to the region along with some scattered snow showers. The region started out with snow depths of 2 to 8 inches from a previous storm, and the high winds caused ground blizzard conditions. Many of the country roads had visibilities down to 500 feet at times. Snow drifts of 3 to 4 feet were reported.

SDZ001>002-012>013-026-030>032 Harding - Perkins - Butte - Meade Co. Plains - Central Foot Hills - Custer Plains - Pennington Plains - Haakon

28	0656MST	0	0	High Wind (G52)^M
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High winds occurred across portions of western South Dakota. Sustained wind speeds were from 35 to 45 mph with gusts to 60 mph. The highest measured wind gust was 60 mph at Buffalo and Ellsworth AFB.



National Weather Service

Storm Data and Unusual Weather Phenomena



November 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WYOMING, Northeast

WYZ056>058

Moorcroft - Wyoming Black Hills - Weston

01	0500MST 1700MST	0	0	787K	Blizzard
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WYZ054

Gillette

01	0642MST 1400MST	0	0	High Wind (G57) ^M
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An intense winter storm brought high winds and heavy, wet snowfall to portions of northeastern Wyoming. In Crook and Weston Counties, snowfall rates were one to two inches an hour. Snowfall totals in the plains were from 4 to 8 inches, while in the Bear Lodge Mountains, totals were from 8 to 24 inches. The Four Corners area in northeastern Weston County reported the most snowfall at 24 inches. High winds sustained up to 40 mph with gusts to 60 mph caused blizzard conditions and toppled 300 power poles.

5,800 people were without power and almost 15 miles of lines had to be replaced. The city of Moorcroft had over 150 stranded semi-trucks after the interstate was shut down. In Campbell County, the temperatures were too warm for snow and rain fell throughout the day, but high winds were reported with gusts over 50 mph at times. The highest gust in Campbell County was 64 mph at Echeta.

WYZ054-056>058

Gillette - Moorcroft - Wyoming Black Hills - Weston

07	1030MST 1600MST	0	0	Winter Storm
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A winter storm moved through the area bringing gusty northwest winds as well as several inches of snowfall. Across the northeastern Wyoming plains, snowfall totals ranged from 2 to 4 inches, while in the Bear Lodge Mountains, snowfall ranged from 4 to 10 inches. The highest snowfall total was 10.5 inches at Devils Tower National Monument. Northwest winds estimated at 30 to 40 mph caused areas of visibilities less than a quarter mile at times, mainly in the Sundance to Newcastle region.



National Weather Service

Storm Data and Unusual Weather Phenomena



December 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ001>002-012>013-024>025-031-044-046-049 **Harding - Perkins - Butte - Meade Co. Plains - Northern Black Hills - Northern Foot Hills - Pennington Plains - Bennett - Mellette - Tripp**

15	1820MST			0	0	
16	0600MST					Winter Storm

A strong cold front moved through the region bringing high winds sustained from 40 to 50 mph with gusts over 60 mph. The peak wind of 63 mph was recorded at Ellsworth Air Force Base. Ground blizzard conditions were reported over much of western South Dakota with near zero visibilities for several hours during the evening of the 15th. Wind chill temperatures dropped to 50 to 70 below zero for most of the day on the 16th. Snowfall totals were generally a trace, with the Northern Black Hills receiving one to two inches.

SDZ024>025 **Northern Black Hills - Northern Foot Hills**

18	0600MST			0	0	
	1200MST					Winter Storm

SDZ001-013-026-049 **Harding - Meade Co. Plains - Central Foot Hills - Tripp**

18	0700MST			0	0	
	1330MST					High Wind (G53) ^M

A cold front moved through the region and caused sustained winds of 35 to 45 mph with some gusts to near 60 mph. The winds lasted for two to four hours before decreasing again. It also brought three to seven inches of snow to the northern Black Hills, with one to three inches to the northern Foothills. The northern Black Hills and Foothills had strong winds of 20 to 30 mph with gusts to 45 mph which caused near blizzard conditions at times.

SDZ001>002-012>014-026-030>032-042>044-046>047-049 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Central Foot Hills - Custer Plains - Pennington Plains - Haakon - Shannon - Jackson - Bennett - Mellette - Todd - Tripp**

27	2312MST			0	0	
28	1100MST					High Wind (G63) ^M

A cold front moved across the region overnight brought sustained winds 40 to 50 mph with gusts to around 70 mph. The peak wind was 72 mph at Buffalo.

WYOMING, Northeast

WYZ054>058 **Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston**

15	1630MST			0	0	
	2200MST					Winter Storm

A strong cold front moved across the region producing strong winds from 35 to 45 mph with gusts to 60 mph. Up to three inches of snowfall was reported with ground blizzard conditions bringing visibilities to zero. Area wide there were over 10 auto accidents reported. On one highway south of Gillette several semi-trucks were jack-knifed due to poor visibility and icy conditions. Conditions improved by late evening across the region. Wind chill temperatures dropped to 50 to 70 below zero through the night and into the next day.

WYZ055 **South Campbell**

17	0550MST			0	0	
	1030MST					High Wind (G56) ^M

Strong southwest winds occurred ahead of a cold front that moved through the region during the day. Sustained winds were from 40 to 45 mph with the peak gust 62 mph at Rochelle Hills in the southeast corner of the county.

WYZ057 **Wyoming Black Hills**

28	0000MST			0	0	
	0900MST					High Wind (G58) ^M

A cold front moved across the areas which brought strong winds sustained at 40 to 50 mph with gusts to near 70 mph.